

Daily Report

August 10, 2010

R/V Ferrel  
Lauren Tom and Krystle Chavarria

1. Safety Meeting 6:30
2. Arrived at sampling station (07:00).
3. Sampling begins (08:00)
4. Three stations were sampled today with four samples per station, including surface samples.
5. The plan was to sample one station on the 11<sup>th</sup> of August, but due to the formation of a tropical storm, we were instructed to head back to port.
6. Lauren=DNA, RNA, PLFA (MoBio filter), Krystle=AODC, Stable Isotope, VOA Analysis, Nutrient Chemistry, Uncontaminated plume depth water, Culturing, PLFA (Sterivex filter),
7. Sampling Nomenclature

SW-YYYYMMDD-VesselMission#-SampleID  
BP-TransectNumber##-SamplingSite##

**First station**

53 miles SSW of wellhead. DO decline with broad depression of 0.7 mg/l at 1100-1200m.  
Seabed at 1535m.

SW-20100810-FER6-xx  
BP-TN11-SS03

1. First sample:  
SW-20100810-FER6-**02** (1514m)  
BP-TN11-SS03
  - AODC, DNA (4L), RNA (4L), VOA Analysis, and Nutrient Chemistry, PLFA (Sterivex 600mL + MoBio Filter 1.4L), BOD
2. Second sample:  
SW-20100810-FER6-**05** (1120m)  
BP-TN11-SS03
  - AODC, DNA (4L), RNA (4L), Stable Isotope, VOA Analysis, and Nutrient Chemistry, PLFA (Sterivex 600mL + MoBio Filter 1.4L), Glycerol Stocks, BOD
3. Third sample:  
SW-20100810-FER6-**08** (1000m)  
BP-TN11-SS03
  - AODC, DNA (4L), RNA (4L), VOA Analysis, and Nutrient Chemistry, PLFA (Sterivex 600mL + MoBio Filter 1.4L), BOD
4. Fourth sample:  
SW-20100810-FER6-**12** (surface)  
BP-TN11-SS03
  - AODC, DNA (4L), RNA (4L), VOA Analysis, and Nutrient Chemistry, PLFA (Sterivex 600mL + MoBio Filter 1.4L)

### **Second station**

55 miles SSW of wellhead. No DO decline.

SW-20100810-FER6-xx  
BP-TN11-SS04

5. First sample:  
SW-20100810-FER6-**13** (1300m)  
BP-TN11-SS04
  - AODC, DNA (4L), RNA (4L), VOA Analysis, and Nutrient Chemistry, PLFA (Sterivex 600mL + MoBio Filter 1.4L)
6. Second sample:  
SW-20100810-FER6-**15** (1120m)  
BP-TN11-SS04
  - AODC, DNA (4L), RNA (4L), Stable Isotope, VOA Analysis, and Nutrient Chemistry, PLFA (Sterivex 600mL + MoBio Filter 1.4L), Glycerol Stocks
7. Third sample:  
SW-20100810-FER6-**17** (1000m)  
BP-TN11-SS04
  - AODC, DNA (4L), RNA (4L), VOA Analysis, and Nutrient Chemistry, PLFA (Sterivex 600mL + MoBio Filter 1.4L)
8. Fourth sample:  
SW-20100810-FER6-**20** (surface)  
BP-TN11-SS04
  - AODC, DNA (4L), RNA (4L), VOA Analysis, and Nutrient Chemistry, PLFA (Sterivex 600mL + MoBio Filter 1.4L)

### **Third station**

65 miles SSW from wellhead. No DO decline.

SW-20100810-FER6-xx  
BP-TN11-SS05

1. First sample:  
SW-20100810-FER6-**21** (1300m)  
BP-TN11-SS05
  - AODC, DNA (4L), RNA (4L), Stable Isotope, VOA Analysis, and Nutrient Chemistry, PLFA (Sterivex 600mL + MoBio Filter 1.4L)
2. Second sample:  
SW-20100810-FER6-**23** (1120m)  
BP-TN11-SS05
  - AODC, DNA (4L), RNA (4L), Stable Isotope, VOA Analysis, and Nutrient Chemistry, PLFA (Sterivex 600mL + MoBio Filter 1.4L), Glycerol Stocks
3. Third sample:

SW-20100810-FER6-**25** (1000m)

BP-TN11-SS05

- AODC, DNA (4L), RNA (4L), Stable Isotope, VOA Analysis, and Nutrient Chemistry, PLFA (Sterivex 600mL + MoBio Filter 1.4L)

4. Fourth sample:

SW-20100810-FER6-**27** (surface)

BP-TN11-SS05

- AODC, DNA (4L), RNA (4L), Stable Isotope, VOA Analysis, and Nutrient Chemistry, PLFA (Sterivex 600mL + MoBio Filter 1.4L)